

Section 2.3 Cultural Resources

12-month Issues

12-CR-1 Data Adequacy Deficiency – Please provide cultural resources surveys (archeological, ethnographic, historical and architectural) for the project area and the linears. The responsibility for the evaluation must be taken by persons meeting the Secretary of the Interior's Professional Qualification Standards in a discipline appropriate to the historic context within which the resource is being considered (OHP 1995). Identify and include descriptions of historic cultural resources (buildings, structures, objects, sites, and districts) within and adjacent to the project site, transmission lines, and roadways (within ½ mile that appear to be 45 or more years old).

Data Adequacy Response – Tremaine & Associates conducted an historic resources investigation in response to this data adequacy deficiency. Their draft report is included as Attachment 12-CR-1 to this filing. A final report will be submitted to the CEC upon completion (expected to be by December 21, 2001).

12-CR-2 Data Adequacy Deficiency – Please provide the qualifications of the individuals conducting the archeological, ethnographic, historical and architectural surveys.

Data Adequacy Response – Qualifications for the personnel who conducted the prehistoric and historic resources investigation are included in Attachment 12-CR-2 of this filing.

12-CR-3 Data Adequacy Deficiency – Please provide DPR Forms 523A, 523B, and 523J for the Helm Substation, the Panoche-McCall (Helm) transmission line, the Panoche-Kearney transmission line, the Helm-Kerman transmission line, and all other architectural/historic resources within ½ mile of the project area that are older than 45 years of age. Please provide DPR Forms 523A for all other architectural/historic resources within 100 feet of the water line, compressor station, and gas line.

Data Adequacy Response – The requested forms will be part of the final report prepared by Tremaine & Associates (see response to 12-CR-1) that is expected to be completed around December 21, 2001.

12-CR-4 Data Adequacy Deficiency – Please provide a summary of the response or lack of response from Native American representatives.

Data Adequacy Response – Letters sent to Native American Representatives are contained in Appendix 8.3A of the AFC. No response has been received from these letters.

**CENTRAL VALLEY ENERGY CENTER
DATA ADEQUACY RESPONSES (01-AFC-22)**

**Attachment 12-CR-1
Tremaine & Associates'
DRAFT
Historic Buildings & Structures Report**

Historic Buildings and Structures within the Central Valley Energy Center Project Area, Fresno County, California

INTRODUCTION

Tremaine & Associates was contracted to identify historic buildings and structures within the right-of-way (ROW) for the Central Valley Energy Center project. This work was required by the California Environmental Quality Act. This letter report supplements the Cultural Resources Section of the Application for Certification to the California Energy Commission, prepared by Ch2M Hill.

PROJECT DESCRIPTION & ROW

The Central Valley Energy Center, LLC plans to develop a natural-gas-fired generating facility south of the City of San Joaquin (Figure 1). Natural gas for the facility will be delivered from PG&E's existing gas transmission lines (Line 2 and Line 104), located approximately 20 miles west of the Project Site, along a new 24-inch pipeline. Reclaimed water for the cooling tower and process makeup water will be supplied by the Fresno-Clovis Wastewater Treatment Facility (WWTF), located 21 miles east of the Project Site, requiring new pipeline as well. Lastly, the facility will connect to PG&E's electrical transmission system via its Panoche-McCall and Panoche-Kearney 230-kV transmission lines, located on a parcel to the south of the Project Site.

The Project ROW along both pipeline routes is 100 feet wide. The gas pipeline route will start at Lines 2 & 104 (intersection of Jerrold and West Manning Avenue), following West Manning east to the Project Site (just south of San Joaquin). The reclaimed water pipeline route will start at the southwest corner of the WWTF, following North Avenue for one mile. At this point, the route will head south along Chateau Fresno for three miles, then west along Lincoln for three miles, south along Jameson for three miles, west on West Manning for 10.5 miles, and finally south for 1/4 mile along Placer Avenue to the Project Site. The electric transmission line will extend from the Project Site at Springfield Road south to the Helm Substation, and is about 1,500 feet north/south by 750 feet east/west.

METHODS

A windshield survey was conducted to identify any potential historic buildings and structures along the two pipeline routes (those over 45 years old). This was conducted by Juan Cervantes and Brian McEneaney. Buildings or structures (primarily ditches) which appeared older than 1957 were photodocumented. Their provenience was noted by street address when possible, by milepost, and/or by GPS coordinates.

Architectural Historian Kevin (Lex) Palmer reviewed photographs of building locations along the two routes. Historic buildings (pre-1957) were identified based on construction techniques and materials. Their vintage was confirmed by consulting historic maps located at the University of California Santa Barbara Map and Imagery Lab. Sources consulted included: United States Geological Survey 7.5-minute series maps (Helm, Kearney Park, Kerman, and San Joaquin quadrangles-1925 and 19630; and a series of historic aerial photographs (1937, 1950) obtained at the CSU Fresno Library Map Room.

Archaeologist Kim Tremaine reviewed photographs of ditches identified along the two routes, consulting with the historic aerials mentioned above, to bracket their age if possible. Preliminary contacts were made with the four irrigation districts relevant to the project ROW (from west to east): the Westland Water District, the Tranquility Irrigation District, the James Irrigation District, and the Fresno Irrigation District.

FINDINGS

The most common resources identified were historic buildings and ditches. These are briefly described below, along with other miscellaneous features.

BUILDINGS

Sixteen locations with single and multiple buildings were identified along the gas and water routes. Thirteen were found to be of historic vintage. Two remain undetermined, requiring additional research, and another was found to be modern. Refer to Figure 2 for locations of buildings mentioned below. Those dating to pre-1957 are currently being recorded on Primary Record forms (DPR 523A).

Buildings within view of the Project Site (the triangular parcel just south of the City of San Joaquin) are being considered. These will be reported on shortly.

Building Location 01. 24690 West Manning Avenue

The historic resource consists of a farm residence complex with three pre-1957 residences, two pre-1957 pump houses, a post-1957 pole barn, a pre-1957 feed barn, and two or more additional buildings (vintage unknown). All the wood-clad buildings are vernacular style. Two of the residences are designed for house laborers, and the third residence was designated for the property owner. Across the street are three associated post-1957 outbuildings that include a corrugated metal grain silo, corrugated metal panel storage building, and pole barn.

Building Location 02. 24634 West Manning Avenue

The historic resource consists of a Craftsman style (1905-1930) farm residence.

Building Location 03. along West Manning Avenue

The property consists of a vernacular-style stucco-clad residence with an associated pole barn, and additional unidentifiable buildings. Neither the 1937 nor the 1950 aerial photographs show a house in the vicinity of this property. The property does appear in the 1963 USGS topographic map. Given its recent age, this property was not recorded.

Building Location 04. 9545 Sutter Avenue

The historic resource consists of a farming complex with a stucco-clad multiple-roofline vernacular-style residence, large front-gabled barn, hipped-roof tank house, shed-roof pump house, and three additional historic storage buildings.

Building Location 05. 2227 Springfield Avenue

The historic resource consists of a farming complex with a wood-clad residence, wood-clad outbuilding, historic hipped-roof wood-clad tank house, historic large front-gabled barn, side-gabled wood-clad building, and prefabricated storage shed.

Building Location 06. along South Placer Avenue

The property consists of a wood-clad cross-gabled weigh station office with an associated truck bed scale. The building appears on USGS maps by 1963, and is not depicted on 1947 USGS map, and may be of historic vintage.

Building Location 07. Yuba Avenue

The historic resource consists of a cross-gabled wood-clad vernacular-style historic residence with a stucco clad addition, a front-gabled pump house, and two large post-1957 metal fertilizer tanks.

Building Location 08. 20710 West Manning Avenue

The historic resource consists of vernacular-style buildings that include a side-gabled stucco-clad residence, a front-gabled stucco-clad garage, wood-clad shed, and a historic wood-clad storage building with a corrugated metal panel roof.

Building Location 09. 20606 West Manning Avenue

The historic resource consists of a vernacular-style cross-gabled wood-clad residence and side-gabled wood-clad garage.

Building Location 10. along West Manning Avenue

The historic resource consists of a front-gabled wood-clad residence with Craftsman-style (1905-1930) elements, three utilitarian-style wood-clad outbuildings, and a wood-clad pump house

Building Location 11. West Manning Avenue

The historic resource consists of a front-gabled wood-clad Folk Victorian farm house (circa 1900-1915).

Building Location 12. West Manning/Jameson

The property consists of a post-1957 wood and brick veneer-clad Ranch-style residence with a side-gabled roof.

Building Location 13. 10733 Lincoln Avenue

The historic resource consists of a wood and brick veneer-clad cross-gabled Ranch-style residence (unknown vintage), a pre-1957 side-gabled stucco-clad residence and side-gabled corrugated metal-panel storage shed, a circa 1940s large side-gabled pumatile block-clad (possible former dairy), and a pre-1957 wood-corrugated metal panel clad shed-roof barn.

Building Location 14. Lincoln Avenue

The historic resource consists of a stucco-clad vernacular-style residence with a hipped roof, and a front-gabled Craftsman-style (1905-1930) residence with a poor-quality stucco surface over the original building fabric.

Building Location 15. 9450 Lincoln Avenue

The historic resource consists of a stucco-clad cross-gabled residence with an associated plywood side-gabled storage shed, and two side-gabled wood-clad outbuildings.

Building Location 16. 9244 Lincoln Avenue

The historic resource consists of a pre-1957 wood-clad side-gabled residence, a post-1957 wood-clad barn with corrugated metal panel-clad clestory roof, and undetermined age hipped roof stucco-and brick veneer residence with Ranch-style elements.

DITCHES

Eleven ditches were identified during the windshield survey. Ten were determined to be historic based on examination of historic aerials. These were recorded on Primary Records and Linear Feature Record forms (see Appendix A). Refer to Figure 2 for locations of ditches discussed below.

Ditch 01. San Luis Drain

This ditch is concrete-lined, running northwest/southeast across West Manning Avenue at Calaveras, approximately five miles west of the City of San Joaquin. It is within present-day Westland Water District. In examining historic aerials, it was determined that this ditch dates post-1950. It was apparently built sometime after 1955 when the U.S. Bureau of Reclamation proposed an earthen ditch to drain 96,000 acres for the west side of San Joaquin Valley. It is thought to have been built in the early to mid-1970s (personal communication, Bill Allison, Public Affairs, San Joaquin District). The discovery of deformities and deaths of aquatic birds at Kesterson Reservoir in 1983 (from buildup of Selenium) prompted a joint federal and State investigation of drainage and drainage-related problems (<http://www.dpla.water.ca.gov/sjd/waterquality/drainage/description.html>). The San Luis Drain was closed in 1986 due to the presence of saline groundwater within 10 feet of the soil surface (<http://www.westlandwater.org/Drainage/Drainage1.htm>).

Ditch 02. Slough Canal Lateral 3

This earthen ditch is oriented east/west along the north side of West Manning Avenue, approximately three miles west of the City of San Joaquin. It is within present-day Tranquility Irrigation District. It dates prior to 1937.

Ditch 03. Fresno Slough

This earth ditch is oriented northwest/southeast, crossing West Manning Avenue at South Levee Road, about two miles west of the City of San Joaquin. It is within present-day Jameson Irrigation District. It dates prior to 1937.

Ditch 04. James Irrigation District Ditch F-G2

This earthen ditch is oriented north/south along the west side of Eldorado Avenue, just southwest of the City of San Joaquin. It is within present-day Jameson Irrigation District. It dates prior to 1937.

Ditch 05. James Irrigation District Ditch Lateral F

This earthen ditch is oriented east/west along the north side of Springfield Avenue, directly south of the City of San Joaquin. It is within present-day Jameson Irrigation District. It dates prior to 1937.

Ditch 06. James Irrigation District Ditch G-H1/F-G1

This earthen ditch is oriented northwest/southeast, crossing West Manning Avenue about one mile east of the City of San Joaquin. It is within present-day Jameson Irrigation District. It dates prior to 1937.

Ditch 07. James Main Canal

This canal consists of three parallel earthen ditches. The western ditch is currently filled with water. The eastern ditch is dry, bordered by riparian vegetation and a raised levee road on its western side. The central ditch is shallow and dry, bordered on the east by the raised levee road. This feature is within present-day James Irrigation District. It dates prior to 1937.

Ditch 08. Lassen Ditch

This ditch is concrete-lined, oriented north/south, crossing West Manning Avenue at South Lassen about five miles east of the City of San Joaquin. It parallels the east side of South Lassen. It is within present-day James Irrigation District. It dates prior to 1937.

Ditch 09. McMullen Canal

This canal is concrete-lined, oriented northeast/southwest, crossing West Manning Avenue at Goldenrod, approximately eight miles east of the City of San Joaquin. It is situated between irrigation districts, but James Irrigation District has pumping rights. Additional research is necessary to verify its age. It dates at least to 1950, and probably prior to 1937.

Ditch 10. West Central Canal

This earthen ditch is oriented east/west along West Central Avenue, cutting across the pipeline route which heads north along a dirt road in line with Chateau Fresno Avenue to the north. It is situated between irrigation districts, approximately six miles southwest of Fresno. Additional research is necessary to verify it's age. No historic aerial was obtained for this area.

Ditch 11. Dry Creek Canal

This earthen ditch is oriented east/west along the south side of West North Avenue. It is situated between irrigation districts, about eight miles southwest of Fresno. Additional research is necessary to verify it's age. No historic aerial was obtained for this area.

MISCELLANEOUS FEATURES

Several miscellaneous features were noted during the windshield survey. These are discussed below.

The Helm Substation

The Helm Substation and associated electrical transmission lines (Panoche-McCall; Panoche-Kearney; and Helm-Kerman) were briefly examined. It was determined that these were all installed beginning in the mid-1970s. Given the relative modernity of these features, they were not recorded.

Detention Basins.

Several modern detention basins were noted along the south side of West Manning Road, west of San Joaquin. Given their young age and frequent maintenance these were not recorded.

Tranquility Irrigation District Reservoir.

A 500-acre earthen reservoir was identified on both sides of West Manning just east of Calaveras Avenue, between San Luis Drain and Beta Main Canal. This reservoir is currently dry and surrounded by dirt berms. The berms were built sometime after the Irrigation District was formed in 1918. They are clearly evident in a 1937 aerial photograph. A trash scatter, in the southwest corner of the reservoir, appears primarily modern. It contained flat and bottle glass, metal, domestic faunal bones, brick fragments, and other miscellaneous debris. According to Bissonnette (1992), the Tranquility Irrigation District excavated about ten acres in this area for trash disposal, about thirty years ago. It was used for discarded concrete and domestic refuse by local residents until about twenty years ago. Most of the trash has since been removed to another landfill site. A Primary Record for this feature can be found in Appendix A.

The Southern Pacific Railroad.

The Southern Pacific Railroad borders the northeastern border of the project site, paralleling West Colorado Avenue. This particular line running through the City of San Joaquin was originally known as the Hanford and Summit Lake Railroad line, which ran

between Riverdale and Tranquility to the north. It was built in 1912, and later bought out by Southern Pacific (Clough and Secrest 1984). A Primary Record for this feature can be found in Appendix A.

SUMMARY AND RECOMMENDATIONS

Twenty-five historic buildings and structures were identified during this phase of identification. There were a minimum of 13 historic buildings. Primary Records of these resources are being prepared. There were 10 historic ditches. Primary Records of these resources are appended. Additional research is being conducted to determine more precisely when each ditch was originally constructed. An historic reservoir was also recorded, along with the Southern Pacific Railroad grade. It is recommended that impacts to these resources be avoided during project development. If it is determined that impacts cannot be avoided, then resource evaluations and mitigation measures should be implemented.

REFERENCES

Bard, J.

2001 Cultural Resources. In, Application for Certification for the Central Valley Energy Center Project (01-AFC-22), Fresno County, California. Report section prepared for Calpine.

Bissonnette, L.D.

1984 Phase I Cultural Resources Assessment: The Fresno County Manning Avenue Gap Between Contra Costa and Ormsby Avenues. Report prepared for Fresno County Public Works. Ms. on file, Southern San Joaquin Valley Information Center, Bakersfield, California.

Clough, C.W., and W.B. Secrest, Jr.

1985 Fresno County: The Pioneer Years, from the Beginnings to 1900. Panorama West Books, Fresno.

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**Attachment 12-CR-2
Cultural & Historical Resumes**

**CENTRAL VALLEY ENERGY CENTER
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James C. Bard

Cultural Resource Specialist

Education

Ph.D., Anthropology, University of California, Berkeley, 1979
M.A., Anthropology, University of California, Berkeley, 1976
B.A., Anthropology, University of California, Berkeley, 1974

Professional Registrations

Society for California Archaeology, Approved Consultant
Society of Professional Archaeologists (ROPA)
California Lifetime Junior College Teaching Credential, Anthropology

Distinguishing Qualifications

- Founded, owned, and managed Basin Research Associates, Inc., a cultural resource management consulting firm in the San Francisco Bay area (1977-1993)
- Twenty-five years of archaeological experience in the western United States
- Over 25 professional publications in the field of cultural resources
- Developed patination dating technique for Great Basin

Relevant Experience

Dr. Bard is responsible for directing cultural resource management projects for CH2M HILL. He has extensive experience in prehistoric archaeology, cultural resource management, and small business management. He has been extensively involved in the management of and/or participation in cultural resource investigations in compliance with the National Environmental Policy Act, the National Historic Preservation Act, and a variety of other federal cultural resource regulations. He has extensive experience in the implementation of cultural resource investigations to meet the requirements of the California Environmental Quality Act (CEQA) and the Washington State Environmental Policy Act (SEPA).

Dr. Bard is a cultural resources management specialist with a broad technical and geographical background in all aspects of cultural resource assessment and regulatory compliance. He has 21 years of professional experience in the design and management of cultural resource components of EAs, EIRs, and EISs for federal, state, and municipal agencies, private industry, the military, and the scientific community. His specialties include program management, coordination of technical analyses, research design formulation, Section 106 compliance, Native American and general client liaison, human resources management, and marketing. Dr. Bard's research interests include California, Great Basin, and Columbia Plateau archaeology and ethnology, scientific applications in archaeology (archaeometry), cultural ecology, paleoenvironmental reconstruction, lithic technology and experimental archaeology, prehistoric rock art, archaeological methods and theory, and cultural resource management. He has completed projects located throughout California,

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the Great Basin, and Pacific Northwest, and has experience in the northwestern Plains (Alberta) and the Southwest (Arizona).

Prior to joining CH2M HILL in 1993, Dr. Bard held a 50 percent ownership and served as a Principal of Basin Research Associates, Inc. [BASIN] for more than 16 years. BASIN is headquartered in the San Francisco Bay Area and serves a broad array of clients throughout California and Nevada. Dr. Bard and a partner founded BASIN in 1977 while completing their graduate studies at U.C. Berkeley. During Dr. Bard's 16-year tenure with BASIN, over 1000 individual projects were completed by the firm. Dr. Bard has served as Principal or Co-Principal Investigator for over 350 cultural resource assessments associated with urban and rural land planning, the development of water, energy, and mineral resources, and urban development throughout northern and central California and Nevada.

In addition, Dr. Bard served as principal or co-principal investigator for over 30 cultural resource mitigation programs throughout northern and central California, which involved site testing and data recovery operations. He served as a discipline specialist or project archaeologist for over 50 cultural resource mitigation programs throughout northern and central California and Nevada which involved site testing and data recovery, extended laboratory analysis, and/or specialized scientific analysis. Over the years, Dr. Bard has provided consultations to public agencies, private land developers, and architects and engineers.

Prior to founding BASIN, Dr. Bard worked as a teaching assistant in the Department of Anthropology, at the University of California, Berkeley, for such courses as Introduction to Prehistoric Archaeology, Science and Archaeology and Archaeology and Society (1974-1976). He was also a guest researcher, conducting archaeometric studies, at the Lawrence Berkeley Laboratory at U.C. Berkeley (1974-1979) and a volunteer assistant at the Pheobe Apperson Hearst Museum of Anthropology (formerly the Robert H. Lowie Museum of Anthropology) (1970-1972). He also served as a volunteer staff Archaeologist with the University of California, Los Angeles, Archaeological Survey (1969-1970).

Representative Projects

Energy/Power and Communication Transmission/Distribution

Principal investigator for cultural resource assessment for Pacific Gas and Electric Company's Tri-Valley Project, Amador and Livermore Valleys, California. Surveys and siting studies for new electrical transmission generating capacity and delivery for Dublin, Pleasanton, and Livermore, California.

Project manager for the cultural resource program for Pacific Gas Transmission Company's Pacific Northwest Expansion Project in Oregon. This multi-year project (1993-1994), which is being licensed by the Federal Energy Regulatory Commission (FERC), requires compliance with a number of Federal and state cultural resource laws and regulations. The cultural resource program requires the coordination and management of a team of subconsultant specialists in archaeology, history, ethnology, ethnohistory, and other related disciplines; and coordination and liaison with Federal and state agencies and Native American Tribal

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groups. The program will include archaeological survey, testing, and data recovery operations, and implementation of a Native American participation program.

Cultural resource specialist for Tuscarora Pipeline Company's application to the Federal Energy Regulatory Commission (FERC) for a Certificate of Public Convenience and Necessity in Oregon, California, and Nevada. Supervised subconsultant's preparation of the cultural resource element to the Resource Report, provided senior review, and identified subconsultants for subsequent work phases.

Cultural resource specialist for SAI Soledad Energy, Inc.'s Soledad Biomass Power Plant cultural resource assessment. Served as Principal Investigator for a cultural resource assessment of a proposed biomass power plant in Soledad, Monterey County, California. Conducted research, supervised the field survey and prepared the technical report.

Cultural resource specialist for the Northwest Power Enterprises, Inc.'s Starbuck Gas-Fired Generating Plant Project, Columbia County, Washington. Served as Principal Investigator for a 120-acre survey and subsurface testing program of the proposed and alternative generating plant sites, assisted with Tribal consultations and evaluation of traditional cultural properties, and co-authored two technical reports.

Cultural resource specialist for the preparation of a National Park Services Bulletin 38 "Traditional Cultural Property" (TCP) investigation for the proposed Lorella Pumped Storage Electrical Generating Plant, Klamath Falls, Oregon. Conducted interviews with Modoc tribal elders and prepared a preliminary TCP evaluation report.

Project manager for the cultural resource inventory of 1600 acres along the Columbia River near Vernita Bridge at the U.S. Department of Energy's Hanford Site in Richland, Washington. Directed a large scale survey of DOE lands along the southern bank of the Columbia River using a predominantly Native American work crew composed of Wanapum, Nez Perce, and Yakama tribal members. Served as Principal Investigator and lead author of the technical report.

Project manager for the cultural resource inventory of seven proposed basalt quarries at the U.S. Department of Energy's Hanford Site in Richland, Washington. Directed a 685 acre survey of proposed quarry site and served as Principal Investigator and lead author of the technical report.

Project manager for the cultural resource inventory of the former Central Shops Complex and five Antiaircraft Artillery installations along Army Loop Road at the U.S. Department of Energy's Hanford Site in Richland, Washington. Directed the field investigations and served as Principal Investigator and lead author of the technical report.

Project manager and principal investigator for the preparation of a historic context statement pertaining to the Ethnographic/Contact Period (Lewis and Clark 1805-Hanford Engineer Works 1943) for the U.S. Department of Energy's Hanford Site in Richland, Washington.

Project manager and principal investigator for the preparation of a historic context statement pertaining to the Pre-1943 Settlement/Farmstead Period (Lewis and Clark 1805-

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Hanford Engineer Works 1943) for the U.S. Department of Energy's Hanford Site in Richland, Washington.

Principal investigator for the preparation of a Traditional Cultural Properties Management Plan for the U.S. Department of Energy's Hanford Site in Richland, Washington, based on tribal elder testimony provided at a workshop sponsored by Battelle Pacific Northwest Laboratory.

Co-principal investigator for the preparation of a Curation Strategy for the U.S. Department of Energy's Hanford Site in Richland, Washington - a document that will guide DOE's curation of Manhattan Project and Cold War artifacts and records. Recommendations by members of an invited panel of nationally recognized museum professionals, that met at the curation workshop sponsored by Battelle Pacific Northwest Laboratory, are included in the strategy document.

Senior consultant to the Bonneville Power Administration (BPA). Assist BPA with peer review, program management, and provide technical support to BPA's cultural resource program manager. Bonneville Power Administration, Department of Energy, Portland, Oregon.

Principal investigator for the cultural resource clearance work associated with the construction of underground repeater boxes located in the Deschutes National Forest for U.S. West Communications Company, Bend, Oregon.

Principal investigator for the cultural resource assessment of the Vansycle Wind Farm Project in Umatilla County, Oregon for ESI Energy, Inc. (Florida Power and Light), North Palm Beach, Florida.

Task leader for the preparation of the cultural resource element of the NEPA EIS for the Bond Falls, Bergland, Cisco Lakes, and Victoria Developments, Upper Peninsula, Ontonagon River, Michigan. EIS for the Federal Energy Regulatory Commission (FERC Project No. 1864).

Principal investigator for the cultural resource assessment of the Delta Energy Center Project in Contra Costa County, California for Calpine/Bechtel, San Francisco, California. Delta Energy Center is a 700+ MW gas-fired power plant licensed by the California Energy Commission.

Principal investigator for the cultural resource assessment of the Metcalf Energy Center Project in Santa Clara County, California for Calpine/Bechtel, San Francisco, California. Metcalf Energy Center is a 600 MG gas-fired power plant licensed by the California Energy Commission.

Transportation -- Highways, Bridges, Railroads, Aviation

Task leader for the cultural resources assessment for the Pittsburgh International Airport Environmental Assessment for the Allegheny County Department of Aviation, Pittsburgh, Pennsylvania.

Task leader for the cultural resources assessment of the I-405 Corridor Study, King and Snohomish Counties, Washington for the Washington Department of Transportation.

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Task leader for the cultural resources assessment of the Kingston Park-and-Ride Lot Project, Kitsap County, Washington for Washington State Ferries, Washington Department of Transportation.

Task leader for the cultural resources assessment for the 13th Street Bridge at the Salinas River - Seismic Retrofit Project, Paso Robles, California for the City of Paso Robles, California.

Task leader for the cultural resources assessment for the San Diego Airport Master Plan 2020 for the Port of San Diego, California.

Task leader for the cultural resources assessment for the Link Central Light Rail Transit Project in Seattle, Tukwila and Seatac Washington for the Central Puget Sound Regional Transit Authority, Seattle (SoundTransit). Project involved archaeological, historical and cultural studies of a 23+ mile light rail corridor through metropolitan Seattle and consultations with Suquamish, Duwamish, and Muckleshoot Indian Tribes.

Task leader for the cultural resources assessment for the Hoover Dam Bypass Project Environmental Impact Statement for the Federal Highway Administration in cooperation with the Bureau of Reclamation, the National Park Service, and the Arizona and Nevada Departments of Transportation. Project involved archaeological, historical and cultural studies of a new bridge and roadway project across the Colorado River near the site of Hoover Dam. Directed efforts of subconsultant (Bureau of Applied Research in Anthropology – University of Arizona) to conduct a formal traditional cultural properties field investigations with over 12 local Indian Tribes.

Task leader for the archaeological survey and National Register of Historic Places eligibility testing and evaluation of archaeological sites 35-WA-43 for the Beef Bend, Elsner, Scholls-Sherwood Roads Improvement Project for Washington County, Oregon (in cooperation with the US Fish and Wildlife Service).

Task leader for the cultural resources survey for the State Route 509/South Access Road Corridor EIS in King County, Washington for the Washington Department of Transportation, Seattle, Washington.

Task leader for the cultural resources survey for the proposed intersection of U.S. Highway 99W and State Route SW 124th Avenue (Tualatin Road) in Washington County, Oregon for ODOT (Oregon Department of Transportation), Salem, Oregon.

Task leader for the cultural resources record search for the widening of NE Glisan Street in Multnomah County, Oregon for LSI Logic Corporation, Gresham, Oregon.

Principal investigator for the archaeological survey of Mt. Hood Parkway from I-84 to US 26, Wood Village, Troutdale, Gresham and Multnomah County, Oregon for ODOT (Oregon Department of Transportation), Salem, Oregon.

Technical specialist for the preparation of an archaeological survey report for the replacement of the Mary's River (Harris Road) Bridge, Benton County and the Luckiamute River (Wildwood Road) Bridge, Polk County for ODOT.

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Technical specialist for the preparation of an archaeological survey report for the replacement of the Table Rock Bridge, Jackson County, Oregon for Jackson County and ODOT.

Principal investigator for the archaeological survey and subsurface testing program for the Edmonds Crossing (Multimodal Ferry, Rail, Road) Project in the City of Edmonds, Snohomish County, Washington for the City of Edmonds, the Washington Department of Transportation, and the Washington State Ferries.

Task leader for the preparation of the SEPA (State Environmental Policy Act) Environmental Checklist and a NEPA Environmental Checklist (Documented Categorical Exclusion) for the Scenic Evergreen Trail in Clark County Washington for Clark County Department of Public Works, Vancouver, Washington.

Task leader for the cultural resources record search and fatal flaw evaluation of the South King County Corridor HOV project for King County, Washington.

Task leader for the cultural resources record search for the extension of the Hedding Street Bridge over the Guadalupe River in the City of San Jose, California for the City of San Jose and the Santa Clara Valley Water District.

Principal investigator for the cultural resources evaluation for the Environmental Assessment of the Golden Gate Bridge Seismic Retrofit Project, San Francisco and Marin Counties, California, for T.Y. Lin International and the Golden Gate Bridge District.

Co-principal investigator for the Santa Clara County Transportation Agency Section 106 Compliance for the Guadalupe Corridor Light Rail Project. This 5-year project included historic property surveys; determinations of National Register eligibility and effects; preliminary case reports; development of a Programmatic Agreement; preparation of overviews and research designs; planning and completion of multi-site excavation programs, including site testing and data recovery, monitoring of construction, emergency data recovery operations, multiple interagency, Native American and client coordination and public contacts, and preparation of multiple preliminary and final reports. Program has involved the administration of a culturally and politically sensitive contract with numerous subcontractors.

Principal investigator for the Archaeological Survey Report for the earthquake-damaged Interstate Highway 880/Cypress (Freeway) Replacement Project for Parsons De Leuw, San Francisco, and the California Department of Transportation, District 4, San Francisco.

Principal investigator for the Historic Property Survey Report and Archaeological Survey Report for the modifications to the existing diamond interchange at I-5/Louise Avenue in Lathrop, California. Project for the California Department of Transportation, District 10, Stockton.

Principal investigator for Archaeological Survey Report for modifications to the existing diamond interchange at U.S. 101/Victoria Avenue in Ventura, California. Project for the California Department of Transportation, District 7, Los Angeles.

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Task leader for the archaeological surveys of Union Pacific Railroad Company's Second Mainline Track Projects, North Platte Subdivision, Morrill and Scottsbluff counties, Nebraska for Union Pacific Railroad, Omaha, Nebraska.

Water — Wastewater Treatment, Freshwater Supply

Principal investigator for the cultural resources assessment of the Burbank Boulevard Trunk Line Project for the Los Angeles Department of Water and Power, Encino, California.

Principal investigator for archaeological investigations at the proposed Troutdale Wastewater Treatment Facility, Troutdale, Oregon for the City of Troutdale, Oregon.

Task leader for archaeological monitoring of construction of the City of Corvallis Combined Sewer Overflow Project, Corvallis, Oregon.

Principal investigator for the cultural resource inventory of the Hill Canyon Wastewater Treatment Plant Expansion and Upgrade, City of Thousand Oaks, California.

Principal investigator for a limited subsurface archaeological testing program at site 45-CL-427 for the USACE Section 404 permitting of the Vancouver-Orchards and Andresan Road Forcemain Projects for the City of Vancouver, Washington.

Principal investigator for a cultural resources assessment of the proposed Mexicali Wastewater Collection and Treatment Project in Imperial County, California for the International Boundary and Water Commission, United States and Mexico, U.S. Section, El Paso, Texas.

Principal investigator for a cultural resources study for the Clearview Water Supply Project, Snohomish County, Washington for the Clearview Group (Alderwood, Cross Valley, Mukilteo and Silver Lake water districts and the cities of Everett and Lynnwood), Lynnwood, Washington.

Archaeologist for the archaeological monitoring of geotechnical borings at the Columbia Blvd. Wastewater Treatment Plant for the City of Portland, Oregon.

Principal investigator for a cultural resources study for the Tualatin Valley Water District/City of Hillsboro's North Transmission Line, Washington County, Oregon.

Principal investigator for a cultural resources reconnaissance, subsurface archaeological testing, and construction monitoring programs for the proposed expansion of the Salmon Creek Wastewater Treatment Plant, Clark County, Washington, for Clark County Department of Public Works.

Principal investigator for a cultural resources reconnaissance of the Cozine Trunkline Replacement Project in the City of McMinnville, Yamhill County, Oregon, for the City of McMinnville, Oregon.

Principal investigator for a cultural resources study for the City of Newport's South Beach Wastewater Treatment Plant and Conveyance System for the City of Newport, Lincoln County, Oregon.

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Principal investigator for a cultural resources study for the Coos Bay - North Bend Water Supply Project for the Coos Bay - North Bend Water Board. Coos Bay, Oregon.

Principal investigator for the preparation of a cultural resources monitoring plan for the Callow Avenue Storm Drainage Separation Project for the City of Bremerton, Washington and the U.S. Navy's Puget Sound Naval Shipyard.

Principal investigator for a cultural resources reconnaissance and archaeological monitoring for the proposed expansion of the Pacific Beach Wastewater Treatment Plant and installation of a community-wide sewage system in Pacific Beach/Moclips, Grays Harbor County, Washington for Grays Harbor County Public Works Agency.

Coordinator of project report production for the East Springfield (Kelly Butte) Sewer Interceptor Restoration Plan for the Metropolitan Wastewater Management Commission, City of Springfield, Oregon.

Principal investigator for a cultural resources study for the Santa Clara River Enhancement and Management Plan, Los Angeles and Ventura Counties, California for the Santa Clara River Project Steering Committee.

Task leader for the preparation of the cultural resources element for the FEIR for the San Ramon Valley Recycled Water Program for the Dublin San Ramon Services District and the East Bay Municipal Utilities District, California.

Principal investigator for the cultural resources survey and National Register evaluation for the Guadalupe River Project, City of San Jose, Santa Clara County, California, for the Sacramento District, U.S. Army Corps of Engineers.

Various

Senior archaeologist for surveys and investigations for quarry development siting studies in Klickitat County, Washington for Ross Island Sand and Gravel Company, Portland, Oregon.

Task leader/senior reviewer for the preparation of a Cultural Resources Management Plan for Arnold Air Force Base, Tennessee.

Principal investigator for cultural resource compliance program for the Owens Lake Dust Control Project, Inyo County, California for the Los Angeles Department of Water and Power.

Task leader for the cultural resources assessment for the proposed Arrowhead Development Corporation commercial redevelopment (sustained development) of the historic Arrowhead Springs resort complex in San Bernardino County, California.

Task leader for Inventory and Evaluation of Historic Buildings at the U.S. Air Force Academy in Colorado Springs, Colorado for the Department of the Air Force, 10th Space Wing, USAF Academy, Colorado.

Principal investigator for the Penn Mine Long-Term Solution Project, Calaveras County, California. Third-party oversight and cultural resources management consulting services provided to the East Bay Municipal Utility District, Oakland, California with regard to the

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Penn Mine remediation program ordered by the Environmental Protection Agency, San Francisco.

Principal investigator for the Class III Cultural Resource Inventory of the primary operations and landing site for the X-33 Advanced Technology Demonstrator at the US Army Dugway Proving Ground, Utah for the George C. Marshall Space Flight Center (NASA), Alabama.

Principal investigator for the cultural resources investigations for siting a proposed steel mill facility at either Coos Bay, Oregon or Hoquiam, Washington for NUCOR Steel Corporation, Portland, Oregon.

Principal investigator for the cultural resources element of the Hanford Reach Planning Study for Benton, Grant and Franklin County Commissions, Washington.

Principal investigator and project manager for an archaeological reconnaissance for the proposed expansion of Nike (Shoe) Corporation's World Campus, Beaverton, Oregon for SRI/SHAPIRO, Inc., Portland.

Task leader for the preparation of the cultural resource element for a Washington State SEPA Checklist for the proposed 190 acre Intel Corporation's Dupont, Washington research and development campus.

Task leader for the fulfillment of Section 106 compliance investigation work for Intel Corporation's Heritage Reserve research and development campus, Fort Worth, Texas.

Principal investigator for a cultural resources reconnaissance of a 1400 acre sugarbeet processing plant near Moses Lake, Washington for Pacific Northwest Sugar Company (Imperial Holly Sugar).

Principal investigator and project manager for the preparation of the Base and Missile Cold War Survey of Malmstrom Air Force Base, Montana for the Department of the Air Force, Air Force Materiel Command, Brooks Air Force Base, Texas.

Task leader for the preparation of Guidelines for Treatment of Historic Facilities at Selfridge Air National Guard Base, Michigan.

Task leader for the preparation of Guidelines for Treatment of Historic Facilities at Selfridge Air National Guard Base, Michigan.

Task leader for the preparation of the cultural resource element for the Environmental Assessment of NASA's un-manned Space Shuttle landing sites at Mountain Home AFB, Idaho; Roosevelt Roads Naval Air Station, Puerto Rico; and on the island of Antigua.

Senior reviewer for the cultural resource element of the Marshall Space Flight Center (Alabama), 1996 Environmental Resource Document update for NASA.

Senior reviewer for the preparation of the Cultural Resource Management Plan for Arnold Air Force Base, Tennessee for the U.S. Air Force – Arnold Engineering Development Center.

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Task leader for the preparation of the cultural resource element for the Supplemental Environmental Impact Statement for the Evolved Expendable Launch Vehicle (new "Space Shuttle") for Los Angeles Air Force Base, California.

Task leader for cultural resources to support preparation of the Environmental Assessment for the National Park Seminary Historic District, Forest Glen Annex, Walter Reed Army Medical Center for the U.S. Army Corps of Engineers, Baltimore District.

Task leader for the preparation of two screening assessments and monitoring plans to study the effects of acid rain on prehistoric rock art sites within the Wallowa-Whitman National Forest and the Columbia River Gorge National Scenic Area as part of the USDA Forest Service's air quality management plan for the Pacific Northwest Region.

Principal investigator for the preparation of a cultural resources assessment and archaeological sample inventory of the Rio Mesa Master Plan Area and Environmental Impact Report, Friant, Madera County, California, for WILLDAN ASSOCIATES and the Madera County Planning Department.

Principal investigator for the preparation of a cultural resources assessment of the Bellevue Ranch Environmental Impact Report, Merced County, California, for WILLDAN ASSOCIATES and the City of Merced Planning Department.

Principal investigator for the New Main Library Project archaeological monitoring/data recovery program and Historic American Building Survey (HABS) recordation of the foundations of the former 1906 earthquake-damaged City Hall, San Francisco, California, for the Bureau of Architecture of the City of San Francisco and O'Brien-Kreitzberg, San Francisco.

Principal investigator for the HABS recordation of the historic Warm Springs Resort Site (A.A. Cohen Hotel), Fremont, California, for the City of Fremont and Hidden Valley Ranch Enterprises.

Principal investigator for a large-scale site testing program in Pleasanton, California (CA-Ala-483), using experimental data recovery techniques and involving extensive public and Native American participation. Work sponsored by The DeSilva Group, Pleasanton.

Principal investigator for a data recovery program in Westlake Village, California (CA-LAN-1521), for WILLDAN ASSOCIATES.

Professional Activities

1990 - present, Peer Reviewer, Journal of Field Archaeology
1986 - present, Peer Reviewer, Society for Archaeological Sciences Bulletin
1977 - present, Public Service, group/individual, career counseling,
artifact/antiquities review

Honors and Awards

1970-79 - Dean's Honors List, University of California, Berkeley
1974 - A.B. with Distinction in General Scholarship, University of California,
Berkeley

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1976 - Robert H. Lowie Scholarship in Anthropology, University of California, Berkeley

1985 - American Committee for the Preservation of Archaeological Collections - Certificate of Appreciation

Memberships in Professional Organizations

American Anthropological Association
American Committee for the Preservation of Archaeological Collections
Archaeological Institute of America
Association for Field Archaeology
Association for Washington Archaeology
Association of Oregon Archaeologists
California Committee for the Promotion of History
Great Basin Anthropological Conference
National Trust for Historic Preservation
Nevada Council of Professional Archaeologists
Society for American Archaeology
Society for Archaeological Science
Society for California Archaeology
Society for Historic Archaeology
Register of Professional Archaeologists

Publications and Presentations

Cultural Resource Management. Presentation made at the 1997 Annual Conference of the Northwest Hydroelectric Association, Portland, Oregon. Invited Speaker. February 5, 1997.

With C.I. Busby and L.S. Kobori. Archaeological Data Recovery of CA-Ala-060 Located on Route 580, Castro Valley, Alameda County, California. California Department of Transportation, District 04, Public Information Office, San Francisco. 1989.

With C.I. Busby. New Perspectives on the Archaeological Sequence in the Coyote Hills Area of the Southern San Francisco Bay: Sites, Components, and Pieces of the Puzzle. Proceedings of the Society for California Archaeology 1:393-410. 1988.

With C.I. Busby, K.M. Nissen, et al. Excavations at John Dryden Cave (NV-WA-3051), Smoke Creek Desert, Washoe County, Nevada. Coyote Press Agency Report Series, Salinas. 1987.

With C.I. Busby and L.S. Kobori. Excavations at Wildcat Gorge Cave (NV-HU-2258), Humboldt County, Nevada. Coyote Press Agency Report Series, Salinas. 1987.

With C.I. Busby. The Central California Prehistoric Culture Sequence: A Preliminary Review of Implications for Santa Clara Valley Prehistory. Coyote Press Archives of California Prehistory 7:82-86, Salinas. 1986.

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With A. Schilz, R. Carrico, J. Thesken, M. Waters, D. and M. Davy, R. Dezzani, and L. Kobori. Archaeological Investigations in Southwestern Arizona: The APS Yuma 500-kV Transmission Line. Westec Services, Inc. (San Diego) and Arizona Public Service Company (Phoenix). 1984.

A Report from the Santa Clara Valley (SCI-418). Society for California Archaeology Newsletter 16(3):7-8. 1982.

With C.I. Busby and J.M. Findlay. A Cultural Resources Overview of the Carson and Humboldt Sinks, Nevada. Bureau of Land Management Nevada, Cultural Resource Series No. 2, Reno. 1981.

With C.I. Busby and L.S. Kobori. Test Excavations at Painted Cave, Pershing County, Nevada. Bureau of Land Management Nevada, Contributions to the Study of Cultural Resources, Technical Report No. 5, Reno. 1980.

With J. Markman and C.I. Busby. X-ray Diffraction Analysis of Pictograph Pigments from Painted Cave, Central Nevada. Bureau of Land Management Nevada, Contributions to the Study of Cultural Resources, Technical Report No. 5, Reno. 1980.

With C.I. Busby and J.M. Findlay. A Cultural Resource Overview of the Bureau of Land Management Coleville, Bodie, Benton and Owens Valley Planning Units, California. Bureau of Land Management California, Cultural Resources Publications, Anthropology-History, Bakersfield. 1980.

With C.I. Busby and L.S. Kobori. Ezra's Retreat: A Rockshelter/Cave Occupation Site in the North Central Great Basin. Center for Archaeological Research at Davis No. 6. 1979.

With F. Asaro and R.F. Heizer. Perspectives on the Relative Dating of Great Basin Petroglyphs by Neutron Activation Analysis. Archaeometry 20(1):85-88. 1978.

With C.I. Busby. The North Fork of the Little Humboldt River: Two Site Reports from North Central Nevada. Kroeber Anthropological Society Papers 51-52:19-43. 1978.

With C.I. Busby and T. Clark. The Pink Point Site: A Survey Collection of a Single Phase Occupation Site in the North Central Great Basin. Kroeber Anthropological Society Papers 51-52:21-29. 1978.

With R.F. Heizer, A.B. Elsasser, K.M. Nissen, and E.D. Castillo. Bibliography of California Indians: Archaeology, Ethnology and Indian History. Garland Press, New York and London. 1977.

Possible New Patination Dating Technique Under Development at U.C. Berkeley. Lithic Technology 5(3):21. 1977.

With J.O. Davis and C.I. Busby. Stratigraphic Situation of the North Fork Lithic Scatter (NV-Hu-301). Nevada Archaeological Survey Reporter 10(1):1-2. 1977.

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With T.R. Hester, L. Spencer and C.I. Busby. Butchering a Deer with Obsidian Tools. Contributions of the University of California Archaeological Research Facility 33:45-56. 1976.

The Chronological Placement of the North Fork Lithic Scatter (NV-Hu-301) in the Culture History of the North Central Great Basin. Nevada Archaeological Survey Reporter 9(1):6-16. 1976.

With C.I. Busby. The Manufacture of Petroglyphs: A Replicative Experiment. Contributions of the University of California Archaeological Research Facility 20:83-101. 1974.

Professional Papers

With C.I. Busby. Lithic Scatters and the Over-the-Horizon Backscatter Radar Project, Modoc National Forest, California. Presented at the 22nd Annual Meeting of the Society for California Archaeology, Redding. 1988.

With C.I. Busby. New Perspectives on the Archaeological Sequence in the Coyote Hills Area of the Southern San Francisco Bay: Sites, Components and Pieces of the Puzzle. Paper presented at the 21st Annual Meeting of the Society for California Archaeology, Fresno, California. 1987.

With C.I. Busby and L.S. Kobori. The Sierra Nevada: Exchange Corridor or Cultural/Biological Barrier? Paper presented at the 18th Great Basin Anthropological Conference, Reno, Nevada. 1982.

With C.I. Busby and L.S. Kobori. Synopsis of Archaeological Investigations at Wildcat Gorge Cave, Humboldt County, Nevada. Paper presented at the 5th Annual BLM Cultural Resources Workshop, Reno, Nevada. 1982.

With C.I. Busby and L.S. Kobori. Test Excavations at Painted Cave, Pershing County, Nevada. Paper presented at the 16th Great Basin Anthropological Conference, Reno, Nevada. 1978.

Great Basin Petroglyphs: Relative Dating by Neutron Activation Analysis. Paper presented at symposium: Current Theory and Research in Great Basin Archaeology at the 43rd Annual Meeting of the Society for American Archaeology, Tucson, Arizona. 1978.

Significant Manuscripts

With R. McClintock. Cultural Resource Investigations on the Dennis Property Near Dallesport, Klickitat County, Washington. For Ross Island Sand and Gravel Company, Portland, Oregon. January 2000.

With R. McClintock, S. Scott and A. Sienko. Cultural Resources Investigation Report, Starbuck Gas-Fired Electric Generating Plant Project, Columbia County, Washington. For Northwest Power Enterprises, Inc., Bellevue, Washington. January 2000.

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With J. Cox and R. McClintock. SR 509/South Access Road EIS Discipline Report: Historical and Archaeological Preservation. For Washington State Department of Transportation, Seattle. January 2000.

With R. McClintock. A Cultural Resource Assessment of the Kingston Park-and-Ride Lot Project, Kitsap County, Washington. For Washington State Ferries, Washington Department of Transportation. November 1999.

With R. McClintock. Archaeological Investigations at the Proposed Troutdale Wastewater Treatment Facility, Troutdale, Oregon. For City of Troutdale, Oregon. October 1999.

With R. McClintock, J. Sharpe and J.L. Fagan. U.S. 93 Hoover Dam Bypass Project: Final Environmental Impact Statement and Section 4(f) Evaluation, Archaeological Resources Survey Report. Cultural Resources Assessment and Archaeological Survey Report to support preparation of the Hoover Dam Bypass EIS. For the Federal Highway Administration in cooperation with the Bureau of Reclamation, the National Park Service, and the Arizona and Nevada Departments of Transportation. August 1999.

With S. Courtois, K.Kraft, C. Wickwire and R. McClintock. Link Central Light Rail Draft Transit Project, Seattle, Tukwila and SeaTac, Washington – Final Technical Report: Historic and Prehistoric Archaeological Sites, Historic Buildings and Structures, Native American Traditional Cultural Properties, Paleontological Sites. For the Central Puget Sound Regional Transit Authority, Seattle, Washington. October 1999.

With R. Anastasio. Cultural Resource Assessment - 13th Street Bridge at the Salinas River - Seismic Retrofit Project, Paso Robles, California. For the City of Paso Robles, California. March 1998.

With J. Cox. A Phase I Cultural Resource Inventory: Hill Canyon Wastewater Treatment Plant Expansion and Upgrade, City of Thousand Oaks, Ventura County, California. For the City of Thousand Oaks, California. March 1998.

With R. McClintock and S. Christensen. A Class III Cultural Resource Inventory: Primary Operations and Landing Site, X-33 Advanced Technology Demonstrator, U.S. Army Dugway Proving Ground, Utah. For the National Aeronautics and Space Administration, George C. Marshall Space Flight Center, Alabama. April 1998.

With R. McClintock. Archaeological Survey and Limited Subsurface Testing for the Proposed Vancouver-Orchards Force Main, City of Vancouver, Clark County, Washington. For the City of Vancouver, Washington. 1997.

Cultural Resource Assessment of the Proposed Mexicali Wastewater Collection and Treatment Project, Imperial County, California. For the International Boundary and Water Commission, United States and Mexico, U.S. Section, El Paso, Texas. 1997.

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With R. McClintock. Cultural Resources Assessment, Vansycle Wind Farm Project, Umatilla County, Oregon. For ESI Energy, Inc. (Florida Power and Light), North Palm Beach, Florida. 1997.

With R. McClintock. A Cultural Resources Assessment of the Proposed NUCOR Steel Mill Site, Coos County, Oregon. For US Army Corps of Engineers, Portland District and NUCOR Steel Corporation, Portland, Oregon. 1997.

With R. McClintock. A Cultural Resources Assessment of the Clearview Water Supply Project EIS, Snohomish County, Washington. For The Clearview Group (Alderwood Water District), Lynnwood, Washington. 1997.

With J.B. Cox and R. McClintock. A Cultural Resource Survey of the Proposed Intersection of U.S. Highway 99W and State Route SW 124th Avenue (Tualatin Road), Washington County, Oregon. For Oregon Department of Transportation. 1997.

With S.A. Scott and D.C. Schwab. Base and Missile Cold War Survey: A Baseline Inventory of Cold War Material Culture at Malmstrom Air Force Base, Montana. For Department of the Air Force, Air Force Materiel Command and USAF Center for Environmental Excellence, Brooks Air Force Base, Texas. 1997.

With D.C. Stapp. Tools and Guidance: Developing a Curation Strategy for Manhattan Project and Cold War Artifacts at the Department of Energy's Hanford Site. For Pacific Northwest National Laboratory, Richland, Washington. 1997.

With D.C. Stapp. Curation Strategy for the Department of Energy's Hanford Site - Recommendations for Manhattan Project and Cold War Artifacts and Records. For Pacific Northwest National Laboratory, Richland, Washington. 1997.

With R. McClintock. Edmonds Crossing Discipline Report Supplement: Presence/Absence Testing for Archaeological Resources, City of Edmonds, Snohomish County, Washington. For City of Edmonds, Washington State Department of Transportation, and Community Transit. 1996.

Tools and Guidance to Develop a Traditional Cultural Properties Management Plan for the Department of Energy's Hanford Site. For Pacific Northwest National Laboratory, Richland, Washington. 1996.

With J.B. Cox. The Unocal Edmonds Bulk Fuel Terminal: A Determination of National Register Eligibility. For City of Edmonds, Washington State Department of Transportation, and Community Transit. 1996.

With R. McClintock. An Archaeological Survey of the Union Pacific Railroad Company's Second Mainline Track Project, M.P. 133.61 to 141.66, North Platte Subdivision, Scottsbluff County, Nebraska. For Union Pacific Railroad. 1996.

With R. McClintock and J.B. Cox. A Cultural Resource Survey of the Tualatin Valley Water District's North Transmission Line, Washington County, Oregon. For City of Hillsboro and the Tualatin Valley Water District, Oregon. 1996.

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With R. McClintock and M. Tveskov. A Cultural Resource Assessment of the Joe Ney/Upper Pony Reservoirs Expansion Project, Coos County, Oregon. For the Coos Bay - North Bend Water Board, Coos Bay, Oregon and submitted to the U.S. Army Corps of Engineers, Portland District. 1996.

With R. McClintock. An Archaeological Survey of the Union Pacific Railroad Company's Second Mainline Track Project, M.P. 103.84 to 109.08, North Platte Subdivision, Morrill County, Nebraska. For Union Pacific Railroad, Omaha, Nebraska. 1996.

With R. McClintock and V. Wright. A Cultural Resource Assessment of the Pacific Beach/Moclips Area Phase 1 Sewage Collection System Addition and Wastewater Treatment Plant Upgrade, Grays Harbor County, Washington. For Grays Harbor County, Montesano, Washington. 1996.

With R. McClintock, J. Cox, V. Wright, S. Christensen, and J. Woodruff. A Cultural Resource Assessment of the Pacific Northwest Sugar Company's Moses Lake Sugar Beet Processing Plant Site, Grant County, Washington. Imperial Holly Sugar Company, Sugarland, Texas. 1996

With R. McClintock. A Report on Cultural Resource Survey and Monitoring of a U.S. West Communications, Inc. Improvement Project No. 52-R-A-695 on the Deschutes National Forest. U.S. West Communications, Inc., Bend, Oregon. 1995.

With R. McClintock. An Archaeological Survey of the Proposed Highway 47 Bypass, From Council Creek to Quince Street, City of Forest Grove, Washington County, Oregon. Washington County, Oregon. 1995.

With J.B. Cox. A Historical Context Statement for the Pre-Hanford Period (Lewis and Clark 1805 - Hanford Engineer Works 1943) at the Department of Energy's Hanford Site, Benton County, Washington.. Battelle Pacific Northwest Laboratories, Richland. 1995.

Screening Assessment and Monitoring Plan to Study the Effects of "Acid Rain" on Prehistoric Rock Art in the USDA Forest Service's Pacific Northwest Region (Region 6). USDA Forest Service. 1995.

Cultural Resources Report for the Santa Clara River Enhancement and Management Plan. Santa Clara River Project Steering Committee, Los Angeles and Ventura Counties, California. 1995.

With J.B. Cox and R. McClintock. A Cultural Resource Assessment of the Edmonds Crossing Project, Snohomish County, Washington. City of Edmonds, Washington Department of Transportation, Community Transit. 1995.

With R. McClintock. A Cultural Resource Assessment of the Cozine Trunk Replacement Project, Yamhill County, Oregon. City of McMinnville, Oregon. 1995.

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With R. McClintock. Presence/Absence Archaeological Testing at the Salmon Creek Wastewater Treatment Plant Expansion, Clark County, Washington. Clark County Department of Public Works, Vancouver, Washington. 1995.

With R. McClintock. An Archaeological Survey of Mt. Hood Parkway from I-84 to US 26, Wood Village, Troutdale, Gresham and Multnomah County, Oregon. Oregon Department of Transportation, Salem. 1995.

A Historical Context Statement for the Ethnographic/Contact Period (Lewis and Clark 1805 - Hanford Engineer Works 1943) at the Department of Energy's Hanford Site, Benton County, Washington.. Battelle Pacific Northwest Laboratories, Richland. 1995.

With R. McClintock. A Cultural Resource Reconnaissance of the Salmon Creek Waste Water Treatment Plant Expansion, Clark County, Washington. Clark County, Washington. 1994.

With S.A. Scott and R. McClintock. A Cultural Resource Inventory of Selected Areas within the Central Shops Complex at the U.S. Department of Energy's Hanford Site, Benton County, Washington. Battelle Pacific Northwest Laboratories, Richland. 1994.

With R. McClintock and J. Cox. A Cultural Resources Inventory of Proposed Basalt Quarry Sites at the Department of Energy's Hanford Site, Benton County, Washington. Battelle Pacific Northwest Laboratories, Richland. 1994.

(Confidential Draft) Report on Traditional Cultural Properties. Lorella Pumped Storage Project, Klamath Falls, Oregon. Independent Hydro Partners, Minneapolis. 1994.

With S.A. Scott. Cultural Resources Investigation Report for the KVA-Starbuck Gas-Fired Generating Plant Project, Columbia County, Washington. CSW Energy and KVA Resources, Washington. 1994.

With R. McClintock. Cultural Resources Assessment, Soledad Biomass Power Plant, City of Soledad, Monterey County, California. SAI Soledad Energy, Inc., Santa Clara, California. 1994.

With D.M. Garaventa and others. Limited Data Recovery Program, CA-CCO-309, The Rossmoor Site, City of Walnut Creek, Contra Costa County, California. City of Walnut Creek, California. 1994.

With M.E. Tannam and others. Archaeological Emergency Data Recovery/CEQA Documentation, CA-Ala-42, Pleasanton, Alameda County, California. Alameda County Water Agency, Pleasanton. 1993.

With C.I. Busby and others. Archaeological Site Testing Report, CA-Ala-483, Laguna Oaks Project, Pleasanton, Alameda County, California. City of Pleasanton Planning Department and The DeSilva Group, Pleasanton. 1992.

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With R.M. Harmon and others. Archaeological Testing, CA-Sol-352, Vicinity of Rockville, Solano County, California. Planning Department, Solano County. 1992.

With D.M. Garaventa and others. Cultural Resources Investigation, Exploratory Geothermal Development, Federal Lease CA-11384, Sugarloaf Archaeological District, Inyo County, California. Department of the Navy, China Lake. 1992.

With D.M. Garaventa and others. Application of California Archaeological Resources Identification and Data Acquisition Program (CARIDAP) to Four Sites at the U.S. Marine Corps Mountain Warfare Training Center, Bridgeport, Mono County, California. Department of the Navy, San Bruno. 1992.

With C.I. Busby and others. Site Testing Program at CA-Fre-492, Fre-2263 and Fre-2264, Vicinity of Shaver Lake, Fresno County, California. Planning Department, County of Fresno. 1991.

With M.E. Tannam and others. Analysis of Native American Skeletal Remains Recovered During Emergency Disinterment at CA-SCI-128, the Holiday Inn Site, City of San Jose, Santa Clara County, California. California Archaeological Site Inventory, Rohnert Park. 1991.

With R.M. Harmon and others. Site Testing at CA-Lan-1521, Triunfo Canyon, City of Westlake Village, Los Angeles County, California. California Archaeological Site Inventory, University of California, Los Angeles. 1991.

With C.I. Busby, R.J. Dezzani and others. Completion of Archaeological Compliance, OTH-B Cultural Resources Program, Modoc National Forest, California. Modoc National Forest, Alturas. 1990.

With C.I. Busby, D.M. Garaventa and others. A Cultural Resources Overview and Historic Preservation Regulatory Analysis of Sandia National Laboratories Livermore Facility. California Archaeological Site Inventory, Rohnert Park. 1990.

With M.R. Fong, A.M. Banet and others. Analysis of Native American Skeletal Remains Recovered During Emergency Disinterment at CA-Ala-514/H, The Hidden Valley Ranch Site, City of Fremont, Alameda County, California. California Archaeological Site Inventory, Rohnert Park. 1990.

With M.R. Fong, A.M. Banet and others. Cultural Resources Assessment of Nelson Hill Quarry Project, Cordelia, Solano County, California. California Archaeological Site Inventory, Rohnert Park. 1990. With D.M. Garaventa and others.

With J.G. James and others. Analysis of Native American Skeletal Remains Recovered During Emergency Disinterment at CA-SCI-678, City of Milpitas, Santa Clara County, California. California Archaeological Site Inventory, Rohnert Park. 1990.

With R.L. Anastasio and others. Cultural Resources Survey, North Coyote Valley Assessment District, Proposed Freeway Interchanges/Approaches Project, San

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Jose, Santa Clara County, California. California Archaeological Site Inventory, Rohnert Park. 1990.

With M.R. Fong and others. Archaeological Site Survey Record: CA-Ala-506, City of Oakland, Alameda County, California. California Archaeological Site Inventory, Rohnert Park. 1989.

With C.I. Busby, K.M. Nissen and others. A Cultural Resources Overview and Class III Inventory of Selected Areas of "Mainside" - NAS Fallon, Churchill County, Nevada in Support of Geothermal Development EIS. Geothermal Program Office, NWC China Lake. 1989.

With R.L. Anastasio and others. Archaeological Program at CA-SCI-204 and CA-SCI-312 for Proposed Improvements of the Expanded Edenvale Redevelopment Project, City of San Jose, Santa Clara County, California. MS on file, California Archaeological Site Inventory, Rohnert Park. 1988.

With M.R. Fong and others. Test Excavations at Three Rockshelter Sites, 26-Wa-3566, -3567 and -3568, Washoe County, Nevada. Bureau of Land Management, Susanville. 1988.

With R.M. Harmon and others. Over-The-Horizon Backscatter Radar Installation, Modoc National Forest, California, Archaeological Survey Report - ASR 05-09-421. Phase I Archaeological Survey: 1985-1986. Modoc National Forest, Alturas. 1987.

With R.M. Harmon and others. Over-the-Horizon Backscatter Radar Installation, Modoc National Forest, Archaeological Survey Report. SRI International, Menlo Park. 1986.

With C.I. Busby and others. Presence/Absence Testing Results for Archaeological Sites CA-SCI-300/302/288 and SCI-418 as Part of the Guadalupe Corridor Compliance with 36 CFR Part 800. MS on file, California Archaeological Site Inventory, Rohnert Park (CASI-R). 1986.

With C.I. Busby and others. Site Testing Report for Archaeological Site CA-SCI-137 as Part of the Guadalupe Transportation Corridor Compliance with 36 CFR Part 800. MS on file, CASI-R. 1986.

With P.M. Ogrey, C.I. Busby, D.M. Garaventa and others. Cultural Resources Monitoring Report of Orchard Properties Projects 515 and 1001 Including Sites CA-SCI-418, -553, -559, and -569H, San Jose, CA. MS on file, CASI-R. 1985.

With R.L. Anastasio and others. A Cultural Resources Assessment of the Proposed City of San Jose Enterprise Zone, Santa Clara County, California. MS on file, CASI-R. 1985.

With C.I. Busby and others. A Burial Recovered from CA-SCI-68 and Analyzed as Part of the Guadalupe Corridor Compliance with 36 CFR Part 800. MS on file, CASI-R. 1985.

**CENTRAL VALLEY ENERGY CENTER
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With C.I. Busby and others. Site Testing Report at Archaeological Site CA-SCI-68 as Part of the Guadalupe Transportation Corridor Compliance with 36 CFR Part 800. MS on file, CASI-R. 1985.

With C. Busby, R. Dezzani and others. Kennedy Meadows Cultural Resources Data Recovery Project. Sequoia National Forest, Porterville. 1985.

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Jim Sharpe

Archaeologist

Education

M.S., Resource Management, Central Washington University (1997)
B.S., Anthropology, Central Washington University (1994)

Distinguishing Qualifications

- Cultural and Natural Resource Management
- Prehistoric and Historic Archaeology
- Extensive Native American Tribal experience
- Historical Research

Relevant Experience

Mr. Sharpe has 8 years of experience in cultural resources with extensive and unique experience with prehistoric and historic sites along almost 150 miles of the Columbia River shoreline and numerous islands. His vast experience at the Department of Energy's Hanford Site include: completion of cultural resource reviews for compliance of Section 106 of the National Historic Preservation Act, historic research, site inspection, archaeological survey, site monitoring, subsurface testing, excavation, site evaluations, technical report writing, and tribal liaison for the Yakima, Umatilla, Nez Perce, and Wanapum Tribes.

Cultural Resource Specialist for the CH2M HILL Company: responsibilities include maintaining a good working relationship with Native American Tribes, archaeological survey, research on cultural resource projects, recording sites and isolates, subsurface testing, excavation, monitoring, site evaluation, technical report writing, use of topographic maps, aerial photographs, and camera equipment.

In 1999, Mr. Sharpe was part of a team of CH2M Hill archaeologists performing fieldwork near Hoover Dam in Nevada. Prehistoric sites were mapped and artifact types analyzed.

In 1999, Mr. Sharpe was part of a team of archaeologists that performed a series of excavations at a site in Sherwood, Oregon for a federal highway project.

In 1999, he represented CHM2HILL in an archaeological survey on a portion of Owens Lake near Lone Pine, California.

In 1998, Mr. Sharpe assisted Pacific Northwest National Laboratories (PNNL) with three archaeological surveys, site recording, historical research and report preparation.

In 1997, he assisted PNNL as project lead for a cutbank-monitoring project. About 80 cutbanks were monitored to assess damage to archaeological sites and possible exposure of human remains from recent high water.

Prior to working with CH2M HILL, Mr. Sharpe was a contract archaeologist with the Grant County Public Utility District. Experience included archaeological fieldwork, project lead for a survey project with Native Americans, site recording and updates, and historical research for the Priest Rapids and Wanapum Reservoirs of the mid-Columbia River.

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Additional experience includes: six weeks of archaeological fieldwork and two spring archaeological field schools at Central Washington University, excavation experience with Eastern Washington University, survey with Northwest Archaeological Associates on scattered tracts of land in the Wenatchee National Forest.

Publications

Masters Thesis: Issues and Conflicts in the Management of the Public Domain of the Saddle Mountains in Eastern Washington: A Case Study.

Archaeological Survey of 56 Preselected Parcels on the Arid Lands Ecology Reserve. BHI-01268, Richland, Washington.

Chinese Gold Miners of the Mid-Columbia Region. BHI-01316, Richland, Washington.

Pre-Hanford Agricultural History: 1900-1943. BHI-01326, Richland, Washington.

Specialized Training

Workshop for new section 106 regulations 11/29-11/30/99

40 Hour Hazardous Waste Training

First Aid Training

Public Consultant Pesticide License

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DATA ADEQUACY RESPONSES (01-AFC-22)**

Alicia Bergstad

Archaeologist

Education

Oregon State University, in Corvallis, Oregon 1993-1999

Bachelor of Science in Anthropology

Minor in Russian

St. Petersburg State University, in St. Petersburg, Russia 1995-1996

Linn-Benton Community College, in Albany, Oregon 1993-1995

Archaeological Work Experience

Field Work

Subsurface testing in Centerilla, Washington for the city of Centrailla in support of a waste water treatment plant, 2001

Archaeological survey in Prosser, Washington for Boniville Power inc. in support of wind turbines for power generation, 2001.

Archaeological survey in San Joaquin, California for Calpine in support of a water and gas pipeline, 2001.

Archaeological survey in area of Sacramento, California for Sacramento Municipal Utility District (SMUD) in support of a natural gas pipeline, 2001.

Archaeological survey near Tracy, California for Calpine in support of water pipeline, 2001.

Archaeological survey in Redmond, Oregon for Cogentrix in support of a power generation plant and water pipeline, 2001.

Archaeological survey at Owens Valley, California on Owens Lake in support of a clean air project, 2001.

Archaeological survey of I-10 in Redlands, California for Caltrans in support of truck climbing lane, 2001.

Archaeological monitoring in Coos Bay, Oregon for the city of Coos Bay in support of pipe line to new wells, 2000 – 2001.

Archaeological Balloon test for visual impact of proposed cell tower in Canyonville, Oregon for American Tower, 2000.

Archaeological monitoring in Vallejo, California for Caltrans for Sanitary Sewer Rerouting, 2000.

Archaeological surveys in Walla Walla, Washington in support of Boniville power for wind turbines. Worked with Native Americans from the Umitila tribe, 2000.

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Subsurface testing at a shell midden in Depo Bay, Oregon for construction of a Hotel, 2000.

Excavation at prehistoric site in Auburn, California For Caltrans in support of construction of a new bridge, 2000.

Archaeological monitoring in Corvallis, Oregon for the City of Corvallis in support of the sewer system overflow project, 1999.

Archaeological survey in Klamath BLM forest for the BLM in support of selected cutting of the sections surveyed, 1998.

Excavation of prehistoric site one mile out side of Bend, Oregon, 1998.

Excavation of historic site at Shore Acres coastal park in Oregon, for a backer of Oregon State University, 1997.

Archaeological Field school, Cool Guy Russ and Laurel Gale site, Oregon, Oregon State University, 1997.

Archaeological field school, Lake Roberts Vista site, New Mexico, Oregon State University, 1995.

Lab Work

Fort Steven State Park, Astoria, Oregon site, fall of 1998. Cleaning historic artifacts, particularly mettles. Separating and identifying parts of tin cans.

Supervised by Professor David Brauner

Bandon, Oregon site, fall of 1997 to present. Cleaning historic and prehistoric artifacts. Labeling artifacts, entering artifacts in to a data base (Paradox in DOS), organizing the lab, analyzing of historic ceramic and glassware. Spring term. Faunal identification of birds from the site.

Supervised by Professor Roberta Hall

Cool Guy Russ and Laura Gal, Oregon Sites summer of 1997. Worked on human and faunal remains from Lake Robert vista. Separated human and faunal Remains. Water screened soil samples from Cool Guy Russ and Laura Gal.

Supervised by Professor Barbara Roth

OSU Osteology and Archaeology Lab, summer of 1997. Organized and inventoried labs, cleaned up chemicals in lab, did pathological analysis of human Skulls.

Supervised by Roberta Hall

Lake Roberts Vista site, summer of 1995. Cleaned and organized artifacts, learned the chronology of Membres pottery, catalogued artifacts By numbering them individually.

Supervised by Professor Barbara Roth

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Museum Work

Museum of Tobago, Scarborough, Tobago West Indies winter of 1999. Cataloged, cleaned, measured, and reconstructed prehistoric ceramic artifacts. Gave tours of the museum to school children. Did some survey and surface collection around the fort.

Papers Presented

Study of Bird, Elk and deer bones from site 35cs43B in Bandon, Oregon, presented at the 52 annual Northwest Archaeological Conference, April 1999, Newport, Oregon

Russian Folk Medicine: an Urban late twentieth century perspective, presented for completion of the International Degree B.A, December of 1998, OSU, Corvallis, Oregon

Teaching

Osteology, Teaching Assistant, Oregon State University, September 1998-December 1998, Corvallis, Oregon

Osteology, Teaching Assistant, Oregon State University, September 1997-December of 1997, Corvallis, Oregon

English as a foreign language, Tutor, International school of Tallinn, September 1992-June 1993, Tallinn, Estonia

Memberships

Paleopathology Association

Extracurricular

Volunteer Coordinator for World Experience exchange program January of 2000
OSU Conversant Program, Conversant September of 1994 to December of 1998

References

Available upon Request

**CENTRAL VALLEY ENERGY CENTER
DATA ADEQUACY RESPONSES (01-AFC-22)**

VITAE

KIM J. TREMAINE *Registered Professional Archaeologist* June 2001
(707) 678-2330 voice 471-6502 fax ktremaine@jps.net 7838 Robben Road, Dixon, CA 95620

EDUCATION

2002	Ph.D. Anthropology	Degree Expected in Winter
1997	Ph.C. Anthropology	Graduate Program at UC Davis
1989	M.A. CRM	Sonoma State University, Rohnert Park, CA
1985	B.A. Anthropology	Sonoma State University, Rohnert Park, CA

SPECIAL TRAINING

1994	USFS Management Training	Sponsored by Eldorado National Forest
1992	Section 106 Course	Sponsored by Advisory Council on Historic Preservation

EMPLOYMENT HISTORY

2001-1995	Principal, Sr Archaeologist	Tremaine & Associates, Dixon, CA
1999-1995	Teaching/Research Assistant	UC Davis, Anthropology Department
1999-1996	Associate Archaeologist	GANDA, Tiburon, CA
1994-1991	Associate Archaeologist	BioSystems Analysis, Inc., Sacramento, CA
1990-1985	Research Arch/Project Coord Center	Sonoma State University, Anthro. Studies
	1988-1983 Hydration Laboratory Technician Obsidian Hydration Lab	Sonoma State University,
1985-1983	Field Technician Center	Sonoma State University, Anthro. Studies
Su 1985	Field School Instructional Aide	Santa Rosa Junior College, Santa Rosa, CA
Su 1984	Field/ Lab Technician	Basin Research Associates, Hayward, CA
1980-1979	Field Technician	Environmental Research Archaeologists, San Diego, CA

PROFESSIONAL EXPERIENCE

- Tremaine & Associates, *Senior Archaeologist*. Consultant for State and Federal agencies, local governments , & environmental firms. Work related to Section 106 projects, CEQA, & NAGPRA, involving traditional pedestrian survey, subsurface geophysical survey, excavation, monitoring. 1995 to present.
- GANDA, *Associate Archaeologist*. Consultant for Bureau of Indian Affairs on FERC relicensing project in NE Washington, related to the Federal Power Act and development of 4(e) conditions for cultural resources.

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DATA ADEQUACY RESPONSES (01-AFC-22)**

- BioSystems Analysis, *Associate Archaeologist*. Project manager for Section 106 and CEQA related projects, responsible for technical and cost proposal development, budget justification, prefield research, field directing, labor tracking, and report production. Summer 1991 to Winter 1994.
- Anthropological Studies Center, Sonoma State University, *Research Archaeologist*, Studies on obsidian and accelerated hydration experiments. Conducted experiments accelerating obsidian hydration. Worked on joint Sonoma State University/Lithichron effort to produce a compendium of hydration measurements on database. Spring 1988 to Summer 1990. *Project Coordinator* for occasional surveys and excavations. Conducted prefield records and literature searches, field reconnaissance, and produced reports. 1985 to 1988. *Laboratory Technician*. Prepared thin section slides and measured hydration. November 1983 to 1988. *Field Technician* for occasional excavations. Sites Ca-Mno-564, 566, 2455, 2456, 2457; Ca-Nap-542, 328, 614, 615, 616; Ca-Son-1488, 120; Ca-Sha-192, 479; Ca-Plu-128, 129; Ca-Tri-262, 240; Ca-Hum-538, 558, 546, 553, 577, 596, 605, 678; Ca-Yol-139. 1983 to 1985.
- California Archaeological Inventory, NW Information Center, Intern. Processed site records and reports, assessed proposed land development projects for archaeological sensitivity and made recommendations. Spring 1989.
- Santa Rosa Junior College, Santa Rosa, California, Instructional Aide for Archaeological Field School, Lake County. Summer 1985.
- Basin Research Associates, Hayward, California, Field and Lab Technician. Excavated, monitored, and conducted lab work in Santa Clara county. Summer 1984.
- Environmental Research Archaeologists, Los Angeles, California, Field Technician. Excavated at Ca-Scl-178, 241, 54, 237, and 163. 1979-1980.

PUBLICATIONS

- 1993 (with Craig Skinner, second author) Obsidian: An Interdisciplinary Bibliography. International Association for Obsidian Studies Occasional Paper No. 1, 165 pp.
- 1993 Temporal Ordering of Artifact Obsidians: Relative Dating Enhanced through the Use of Accelerated Hydration Experiments. Center for Archaeological Research at Davis. Publication No. 11:265-275.
- 1992 Investigation of a Nineteenth Century Threshing Floor at Mission Santa Ines (Ca-Sba-518). Pacific Coast Archaeological Quarterly 28(2):35-47.
- 1990 (with Craig Skinner, first author). Obsidian: An Interdisciplinary Bibliography. International Association for Obsidian Studies: Chico, California, Disk-Based Bibliography for IBM PC Microcomputer.

**CENTRAL VALLEY ENERGY CENTER
DATA ADEQUACY RESPONSES (01-AFC-22)**

- 1988 (with D. A. Fredrickson, first author). Induced Obsidian Hydration Experiments: An Investigation in Relative Dating. Materials Research Society Symposium Proceedings 123:271-278.

EDITORSHIP

- 1994-1991 International Association for Obsidian Studies Newsletter Nos. 5, 6, 7, 8, 9, 10, & 11.

ORGANIZED SYMPOSIA

- 1994 Exploring Logging Practices and their Effects on Archaeological Sites: Developing Management Alternatives for the National Forests, 28th annual meeting, Society for California Archaeology, Ventura, California.
- 1990 Obsidian Sourcing and Dating Research in California, 24th annual meeting, Society for California Archaeology, Foster City, California.
- 1989 Obsidian Studies: Recent Findings and Applications, 23rd annual meeting, Society for California Archaeology, Los Angeles, California.

PROFESSIONAL PAPERS AND PRESENTATIONS

- 1996 Paleolandscapes Of The Central Valley As They Relate To The Delta Region And Human Prehistory. Invited paper, presented at the Central California Archaeological Foundation Symposium: Sacramento River Ecosystem Prehistory", Chico, California.
- 1994 Preliminary Observations on Lacustrine Adaptation in the Central Valley, California. Paper presented at the 28th annual meeting, Society for California Archaeology, Ventura, California.
- 1992 Investigation of an Historic Threshing Floor at Mission Santa Ines. Paper presented at the 26th annual meeting, Society for California Archaeology, Pasadena, California. * Also presented at the 1993 California Missions Conference, Mission San Antonio de Padua, California.
- 1990 The Complexities of Glass Surface Reactions and Implications for Obsidian Dating. Poster presented at the Society for American Archaeology Annual Meeting, Las Vegas, Nevada.
- 1990 A Relative Dating Approach for Bodie Hills and Casa Diablo Obsidians Derived from Accelerated Hydration Experiments. Paper presented at 24th annual meeting, Society for California Archaeology, Foster City, California.
- 1990 (with M. Jablonowski and B. Dahlstrom, second author). Specific Density and Heavy Liquid Sorting as a Potential Method for Sourcing California and Great Basin Obsidians. Paper presented at 24th annual meeting, Society for California Archaeology, Foster City California.

**CENTRAL VALLEY ENERGY CENTER
DATA ADEQUACY RESPONSES (01-AFC-22)**

- 1989 Obsidian as a Time Keeper: An Investigation in Absolute and Relative Dating. M.A. Thesis, Anthropology Department, Sonoma State University, California.
- 1989 Experimentally Derived Comparison Constants for Hydration Analysis of North Coast Ranges Obsidians: A Relative Dating Approach. Paper presented at 23rd annual meeting, Society for California Archaeology, Los Angeles, California.
- 1988 Induced Obsidian Hydration Experiments: A Progress Report. Paper presented at 22nd annual meeting, Society for California Archaeology, Redding, California.
- 1987 Variability in the Effect of Temperature on Obsidian Hydration Rates. Paper presented at 21st annual meeting, Society for California Archaeology, Fresno, California. (A similar version presented at meeting of North Bay Scientists, Rohnert Park, California.)
- 1986 Obsidian Hydration, Source Determinations and Sampling at Ca-Yol-139: A Study in Method. Paper presented at 21st annual meeting, Society for California Archaeology, Santa Rosa, California.

SELECTED CULTURAL RESOURCES MANAGEMENT REPORTS

RESEARCH DESIGNS:

- 1997 Research Design for Phase II Testing of Sites within the Stone Lakes Wildlife Refuge, Sacramento County, California. MS on file, U.S. Fish & Wildlife Service, Sacramento, California.
- 1993 Research Design for Phase II Testing of the Logtown Midden, El Dorado County, California. MS on file, Caltrans District 3, Marysville, California.
- 1992 Research Design for Phase II Testing of Archaeological Site Ca-Sac-84. MS on file, Caltrans District 3, Marysville, California.

FEASIBILITY STUDIES:

- 1993 Preliminary Cultural Resources Constraints Associated with Seventeen Alternatives Considered for Caltrans' Southeast Area Transportation Study. MS on file, Parsons Brinckerhoff Quade & Douglas, Sacramento, California.
- 1992 Archaeological Resources Sensitivity Study for the El Dorado County Water Agency Water Program. MS on file, El Dorado County Irrigation District, California.
- 1991 Cultural Resources Sensitivity and Feasibility Study for Line 109 Replacement Project. MS on file, Pacific Gas & Electric, San Francisco, California.

**CENTRAL VALLEY ENERGY CENTER
DATA ADEQUACY RESPONSES (01-AFC-22)**

EXCAVATION REPORTS:

- 1997 Revisiting Archaeological Sites CA-SAC-85 & -86 within the Stone Lakes National Wildlife Refuge, Sacramento, California. MS on file, US Fish & Wildlife Service, Sacramento, California.
- 1997 Limited Site Investigations of CA-SAC-87 & Gateway within the Stone Lakes National Wildlife Refuge, Sacramento, California. MS on file, US Fish & Wildlife Service, Sacramento, California.
- 1995 (with Will Shapiro) Final Report for the Archaeological Investigation of the Wiegand Property, Dixon, California. Report prepared for Lewis Homes of California, Sacramento, California.
- 1995 (with Lisa Shapiro) Archaeological Investigations at Ca-Yol-182 Located on the University of California Davis Campus, Yolo County, California. Draft Report prepared for University of California, Davis, Office of Planning and Budgets.
- 1994 (with John Lopez-Cabal) Archaeological Investigation for the Park Meadows Alternate Wetlands Mitigation Site in the Northeast Portion of the Lewis Ranch Property, Sacramento County, California. Report prepared for AKT Development Corporation, Sacramento, California.
- 1994 (with Robert J. Jackson) The Cleveland Fire Archaeological Site Evaluation Program on the Eldorado National Forest. Draft Report prepared for Eldorado National Forest, Placerville.
- 1994 (with Robert J. Jackson) Archaeological Investigations at the False Walrus Site (FS# 05-03-56-730). Report prepared for the Eldorado National Forest, Placerville, California.
- 1993 (with Robert J. Jackson) Phase II Testing of the Logtown Midden (Ca-Eld-851), El Dorado County, California. Draft Report prepared for Caltrans District 3, Marysville, California
- 1992 Investigation of an Historic Threshing Floor at Mission Santa Inés during the Solvang Undergrounding Utilities Project, Santa Barbara County, California. MS on file, Pacific Gas & Electric, Buellton, California.
- 1986 (with Thomas Origer and D. A. Fredrickson, first author) Ca-Yol-139: An Archaeological Site on Davis Creek Near Knoxville, Yolo County California, Pp. 145. MS on file, California Archaeological Inventory, Northwest Information Center.

SURVEY REPORTS:

- 1999 (with J.A. Lopez, first author) Archaeological Survey Report of the Banner Mountain Corridor Improvements Project, Nevada County, California. MS on file, California Archaeological Inventory, North Central Information Center.

**CENTRAL VALLEY ENERGY CENTER
DATA ADEQUACY RESPONSES (01-AFC-22)**

- 1999 Archaeological Survey Report of the Ragsdale Property in Angwin, Napa County, California. MS on file, California Archaeological Inventory, Northwest Information Center.
- 1999 Archaeological Survey Report of the Meadowlark Property along Cyrus Creek, Napa County, California. MS on file, California Archaeological Inventory, Northwest Information Center.
- 1999 (with J.A. Lopez, first author) Archaeological Survey Report for the Natomas Gateway Office Development Project, Sacramento County, California. MS on file, California Archaeological Inventory, North Central Information Center.
- 1998 Rock Fences of Napa County: A Pilot Study. Prepared for Napa County, Conservation, Development, and Planning Department. MS on file, California Archaeological Inventory, Northwest Information Center.
- 1998 Archaeological and Historic Resources Identification Report for the Salinas River Headwaters Demonstration Project, Monterey County, California. Prepared for U.S. Fish & Wildlife Service. MS on file, California Archaeological Inventory, Northwest Information Center.
- 1998 Archaeological Survey Report for Bencich Farms in Watsonville, Santa Cruz County, California. Prepared for U.S. Fish & Wildlife Service, California Private Lands Office, Sacramento. California Archaeological Inventory, Northwest Information Center.
- 1998 Archaeological Survey Report for the Widening of Coon Creek Bridge (Br. No. 19C-114) on Gladding Road (03-PLA-0-CR) in Placer County, California. MS on file, California Archaeological Inventory, North Central Information Center.
- 1998 Archaeological Survey Report for Twenty-One Acres within the Sweeny Property along Carneros Creek, Napa County, California. MS on file, California Archaeological Inventory, Northwest Information Center.
- 1998 Archaeological Survey Report for Twelve Acres within the Wastlhuber Property in Gordon Valley, Napa County, California. MS on file, California Archaeological Inventory, Northwest Information Center.
- 1997 Archaeological Reconnaissance of the Multi-Modal Rail Site in the City of Dixon, Solano County, California. MS on file, California Archaeological Inventory, Northwest Information Center.
- 1997 Archaeological Survey for the Agri-Versified Property: Stone Lakes National Wildlife Refuge, Sacramento County, California. MS on file, California Archaeological Inventory, North Central Information Center.
- 1996 Archaeological Survey for the Proposed Lodi Gun Club Restoration Project Associated with the Stone Lakes National Wildlife Refuge, Sacramento County, California. MS on file, California Archaeological Inventory, North Central Information Center.

**CENTRAL VALLEY ENERGY CENTER
DATA ADEQUACY RESPONSES (01-AFC-22)**

- 1996 Archaeological Reconnaissance for Mountain Meadows Reservoir Antelope Fence Installation, Lassen County, California. MS on file, US Fish & Wildlife Service, Sherwood, Oregon.
- 1996 Archaeological Reconnaissance for the Toro Creek Riparian Restoration Projects, San Luis Obispo County, California. MS on file, US Fish & Wildlife Service, Sherwood, Oregon.
- 1996 Archaeological Survey for the Proposed Southern Pacific Railroad Borrow Channel Maintenance Project Associated with the Stone Lakes National Wildlife Refuge, Sacramento, California. MS on file, US Fish & Wildlife Service, Sacramento.
- 1993 Archaeological Survey Report of Three Alternative Alignments Considered for the Proposed Mojave Bypass, Caltrans District 9, Kern County, California. 09-KER-58, P.M. 107.7/118.0. 09-243400. MS on file, Caltrans District 9, Bishop, California.
- 1992 Archaeological Identification Studies for the Buckeye Ranch Project, San Joaquin County, California. MS on file, Central California Information Center, California State College, Turlock.
- 1992 Cultural Resources Field Reconnaissance for Segment 1 Gas Pipeline 109 Replacement Project. MS on file, Pacific Gas & Electric, San Francisco, California.
- 1991 An Archaeological Inspection of the Proposed Collinsville Wind Turbine Generation Site and Transmission Line, Solano County, California. MS on file, Pacific Gas & Electric, San Francisco, California.

CULTURAL RESOURCES MANAGEMENT PLANS

- 1994 (with L. Shapiro and R.J. Jackson, first author) Cultural Resources Management Plan for Archaeological Site CA-Yol-182 within the Solano Park Apartment Complex of the University of California Davis. Prepared for the University of California, Davis, Planning and Budget Office.

REPORTS ON OBSIDIAN STUDIES:

- 1993 (with R. J. Jackson and T. L. Jackson, first author) Obsidian Studies for the Skyrocket Site (CA-CAL-629/630) Near Copperopolis, California. MS on file, Department of Anthropology, California State University Fresno.
- 1991 (with R. J. Jackson and T. L. Jackson, first author) Obsidian Studies for Four Sparse Lithic Scatters at the Marine Warfare Training Center near Bridgeport, California. MS on file, Basin Research Associates, San Leandro, California.
- 1991 Soil Temperature and Relative Humidity Investigation as Relevant to Obsidian Hydration Studies. Appendix D in, Archaeological Evaluation of CA-Mno-2456, --2488, and -564 near Bridgeport, Mono County, California, by D. A. Fredrickson, pp. 267-284. MS on file, California Archaeological Inventory, Northwest Information Center.

**CENTRAL VALLEY ENERGY CENTER
DATA ADEQUACY RESPONSES (01-AFC-22)**

- 1991 A Relative Dating Approach for Bodie Hills and Casa Diablo Obsidian Derived from Accelerated Hydration Experiments. Appendix E in, Archaeological Evaluation of CA-Mno-2456, -2488, and -564 near Bridgeport, Mono County, California, by D. A. Fredrickson, pp. 285-297. MS on file, California Archaeological Inventory, Northwest Information Center.

TEACHING EXPERIENCE

- 1998 CEQA/Section 106 Training for Napa County Conservation, Development, & Planning Department.
- 1998 Guest Lecturer on the "Prehistory of the Putah/Cache Creek Bioregion" for: Nature and Culture 180, taught by David Robertson, University of California, Davis.
- 1998 Guest Lecturer on "CEQA & Cultural Resources Management" for: Cultural Resources Management Seminar taught by Dr. Robert Elston, University of California, Davis.
- 1998 Teaching Assistant for Anthropology 3 (Introduction to Archaeology) taught by Brian Ramos, University of California, Davis.
- 1997 Teaching Assistant for Anthropology 178 (Hunter-Gatherers) taught by Dr. Robert Bettinger, University of California, Davis.
- 1996 Teaching Assistant for Anthropology 03 (Intro to Archaeology) taught by Dr. John Beaton, Anthropology
178 (Hunter-Gatherers)
taught by Dr. Robert Bettinger, University of California, Davis.
- 1996 Guest Lecturer on "Archaeology of the Putah Creek Watershed" for: Landscape Architecture 190 taught by Dr. Robert Thayer, University of California, Davis.
- 1994 Guest Lecturer on "Obsidian Dating" for: Science in Archaeology course taught by Dr. Steven Shackley, University of California, Berkeley.
- 1990 Instructor for Anthro 590: Graduate Seminar on Obsidian Studies in Archaeology, Anthropology Department, Sonoma State University, Rohnert Park, California.

PROFESSIONAL AFFILIATIONS

Society for American Archaeology
Society for California Archaeology
Society for Archaeological Sciences
International Association for Obsidian Studies (* Served as President in 1994-5, also Newsletter Editor)
Society of Professional Archaeologists (certified in Field & Archeometric Natural Science Research since 1990)
Central California Archaeological Foundation (Board Member)



KEVIN (Lex) PALMER, M.A.

Historian / Architectural Historian

- Federal & State Cultural Resources Compliance
- Oral & Textual Historical Research
- HABS/HAER Documentation
- National Register & National Landmarks Nominations

PROFESSIONAL EXPERIENCE

Mr. Palmer has served as an architectural historian and historian across the United States for sites ranging from Spanish colonization to the Cold War. Mr. Palmer has recorded and evaluated more than 1,500 historical buildings and structures, including many federal agency administrative buildings. Most recently, he directed a comprehensive survey of historical resources on Vandenberg Air Force Base that included GIS field documentation. That effort documented historic landscape traits, historical archaeological sites, and historical architecture. He also has performed historical research and architectural surveys for several transportation and redevelopment projects in Lake, San Jose, Santa Barbara, San Luis Obispo, Sacramento, and Fresno counties, and prepared Historic American Engineering Record (HAER) documentation for two bridges in Santa Barbara County.

Specific project experience includes:

- **Grangeville Boulevard Improvement Project, Hanford, California, TPG Consulting, Inc.** Performed inventory and evaluation of historic buildings along Grangeville Boulevard corridor. Wrote HPSR and HASR for Caltrans and FHWA reporting requirements.
- **Cypress Avenue Bridge on Sacramento River Widening Project, City of Redding**
Recorded bridge, wrote Bridge Evaluation Report for Caltrans and FHWA
- **Academy Avenue Improvement Project, Fresno County Transportation Department.** Performed inventory and evaluation of historic buildings along Academy Avenue Boulevard corridor. Wrote architectural survey report and CEQA CRM analysis.
- **Howard Avenue Bridge Replacement Project, Fresno County Transportation Department.** Performed inventory and evaluation of 15-mile-long Crescent Irrigation Ditch for new bridge over irrigation ditch. Wrote HPSR and HRER for Caltrans and FHWA reporting requirements.
- **Carpinteria Class II Coastal Bike Path, City of Carpinteria.** Performed archaeological inventory, bridge documentation, Native American consultation, and wrote project reports.
- **San Luis Obispo County Administration Building Study.** Conducted architectural inventory and evaluation of three-block area of downtown San Luis Obispo. Wrote evaluation of historic viewshed and mitigation recommendations.
- **Capitol Area East End Project Records Search, Sacramento, Department of General Services.** Performed research in archival facilities and assisted in writing historic context for historical archaeological work plan.

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- **Clovis Avenue, Fresno County Department of Public Works.** Performed inventory and evaluation of historic buildings along Clovis Avenue corridor. Wrote HPSR and HASR for Caltrans and FHWA reporting requirements.
- **North Avenue, City of Fresno Department of Public Works.** Performed inventory and evaluation of historic buildings along North Avenue corridor. Wrote HPSR and HASR for Caltrans and FHWA reporting requirements.
- **Moffett Federal Airfield, Sunnyvale, California.** Completed National Register District documentation of Moffett Federal Airfield buildings and structures for Ames-NASA Research Center.

EDUCATION

M.A. cum laude (1993) Public History University of California at Santa Barbara
B.A. (1986) American History University of California at Santa Barbara

**CENTRAL VALLEY ENERGY CENTER
DATA ADEQUACY RESPONSES (01-AFC-22)**

Juan M. Cervantes

3312 Arapaho Way
Antelope, CA 95843
Phone (916) 331-1132
albulidae@earthlink.net

OBJECTIVE

Employment in archaeological consulting, fieldwork, monitoring and/or lab work.

EDUCATION

Bachelor of Arts degree in Anthropology with emphasis in Archaeology, University of California, Davis, August 1999.

ARCHAEOLOGICAL FIELD AND LAB EXPERIENCE

- 7/01-Present: Archaeological Technician for Tremaine and Associates, LLC. Duties included monitoring of Army Corps of Engineers drilling rigs and searching for surface and subsurface archaeological sites along Sacramento area levees. Other duties were conducting prehistoric and historic archaeological surveys in Fresno, Sacramento and Calaveras Counties.
- 7/00-8/01: Archaeological Technician for Holman and Associates. Duties included test excavations, auger testing, historic and prehistoric archaeological surveys, human and faunal bone identification, feature and burial excavation, plan, profile and historic artifact illustration, construction monitoring and photography. Projects were in San Jose, Livermore, Pinole, Green Valley, Palo Alto and Buena Vista, CA.
- 9/99-6/00: Archaeological Monitor for Kiewit Pacific Company. Duties for the Level (3) Long Haul Project included coordination of construction crews with archaeological and Native American monitors along a utility corridor from Berkeley to Sacramento and from Sacramento to Bakersfield, developing plans to avoid archaeological sites, construction monitoring, test excavations, site recording, survey, mapping and geoarchaeological evaluations. Experience with historic and prehistoric sites in the San Francisco Bay and San Joaquin Valley construction areas.
- 2/99-4/99: Volunteer at the Center for Archaeological Research at Davis. Processed and identified column sample artifacts and ecofacts from CA-YOL-187.
- 9/98: Archaeological Technician for Solstice Archaeological Consulting. Protohistoric Gabrieleno burial excavation at the Arco Burial Site, Carson, CA. Work also involved photography and identification of marine shell, faunal bone and human remains.
- 5/98: Volunteer at the Center for Archaeological Research at Davis. Work at a Patwin burial site CA-YOL-187, Yolo, CA, included artifact and human bone identification, excavation, auguring and column sampling.
- 4/98-6/98: UC Davis Human Osteology Class. Learned complete and fragmentary human bone identification, pathology recognition, osteometric techniques, stature, age and sex estimation, analysis and report on burials from CA-SOL-270, Vacaville, CA.

**CENTRAL VALLEY ENERGY CENTER
DATA ADEQUACY RESPONSES (01-AFC-22)**

- 4/98-6/98: UC Davis, Graduate Seminar in Cultural Resource Management. Various aspects of CRM addressed including: NHPA Section 106, CEQA and NAGPRA.
- 9/97-12/97 and 1/98-6/98: UC Davis, artifact analysis class. Processed, described and cataloged prehistoric lithic artifacts from Chancellor Ranch, Sonoma County.
- 8/97-9/97: UC Davis Archaeological Field School, Bodega Bay, CA. Excavation, surface survey, grid layout, site mapping, auguring, stratigraphic interpretation, and use of GPS at Duncan's Landing and Chancellor Ranch, Sonoma County.
- 6/95: Archaeological Technician for RECON Environmental Consulting. Surface and subsurface survey, prehistoric site recording and illustration of features in Alpine, CA.
- 9/94-1/95: Archaeological Technician for RMW Paleo Associates. Work at a prehistoric habitation site, La Jolla, CA, included excavation, marine fish bone, shell and artifact identification and a lecture on the importance of fish otoliths in archaeology.
- 5/94: Volunteer at the San Diego Presidio, Cal-E-4-14-13. Gained experience exposing and detailing buried structures at this Spanish Colonial site.
- 4/94: Archaeological Technician for William Manley Consulting. Salvage excavation of a historic site down town San Diego, CA.
- 8/93-12/93: San Diego City College, Anthropology 265, Analysis, research and report on marine faunal elements recovered from CA-SDI-5220, CA-SDI-8125 and CA-SBR-1457.
- 1/93-6/93 and 1/94-6/94: San Diego City College, field class at CA-SDI-5220, CA-SDI-8125 and the Johnson Taylor Adobe, Rancho de los Peñasquitos, San Diego County. Learned excavation, screening, data recording, surface survey, grid layout, site mapping, field research preparation, use of stadia and transit, Munsell chart, flotation, profile and plan illustration, lithic reduction techniques, soil description, processing and cataloging of historic and prehistoric artifacts.

TEACHING EXPERIENCE

- 9/95-12/95: Teachers Aide for San Diego City College, Introduction to Zoology.
Assisted students in learning anatomical and morphological structures of organisms.

SKILLS

- Experience managing archaeological and Native American monitors on a large project.
- Familiar with Macintosh and PC; MS Word, Claris Works, Adobe Photoshop.
- Experience writing an archaeological research report.
- Determined, adaptable, resourceful, hard working and well organized.
- Proficient in 35mm and digital photography.

RELATED COURSE WORK

- | | |
|---|------------------------|
| Seminar in Cultural Resource Management | Human Osteology |
| Ethnography of California and Great Basin | Geoarchaeology |
| Archaeological Theory and Method | Hunter-Gatherer Theory |

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DATA ADEQUACY RESPONSES (01-AFC-22)**

Archaic Period Adaptations
Prehistoric Technology

Scientific Writing
Statistics

LEADERSHIP

1997-1999: President of the American Fisheries Society Sacramento/Davis Subunit.

1996-1999: Officer/Member of the American Fisheries Society Student Group at UC Davis.

References available upon request

**CENTRAL VALLEY ENERGY CENTER
DATA ADEQUACY RESPONSES (01-AFC-22)**

Curriculum Vitae

Brian N. McEneaney

656 Sunset Ct.
Davis, California 95616
phn# 530.753.0992

Education

-2000 Bachelor of Arts in Anthropology, University of California, Davis.

-Applicable courses include: California Ethnography, California Prehistory, North American Prehistory, Native American Religion and Philosophy, Ethnoarchaeology, Hunter-Gatherer's, Prehistoric Technology, Archaeology I, Archaeological Theory and Method, Cultural Resource Management, Archaeological Field School, Human Osteology, Ichthyology I and Physical Geology.

Archaeological Field Experience

-1998_1999 Two field seasons in Bodega Bay, California with the University of California, Davis Field School directed by Michael Kennedy. Assistant director for the excavation of eight prehistoric sites in and around the Bodega Bay region. Worked with every facet of the field school, including gridding, mapping, subsurface testing, survey, excavation, unit profiling, soil description, lab work, wet screening, classification, typology, pre-field and post-field setup.

-1999 Extensive random and nonrandom surveys, testing, and mapping of the Stone Lakes region in Sacramento County as an Associate Archaeologist for Tremaine and Associates.

-1999_2000 Excavation and monitoring of Ca-Sac-164 (Sand Cove), which contained a minimum of nine burials ranging from Windmill to proto-historic in age for Tremaine and Associates.

-2000 Historical architectural survey at Bodie State Historical Park under the supervision of Dr. Peter D. Schulz. Tasks included recording and photographing interior and exterior elevations, floor plans, and ceiling plans.

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-2000_2001 Historical Archaeological excavations at Colonel Allensworth State Historical Park. Crew chief for excavations of architectural features for the reconstruction of three houses.

-2001 Excavation and survey of the hunter gather site Rincon de Atuel, located in the Pampas, under the direction of the Museo de Historia Naturales in San Rafael, Mendoza Argentina.

-2001 Survey in Valle Hermoso located in the Andes, under the direction of the Museo de Historia Naturales en San Rafael, Mendoza Argentina.

-2001 Project lead for excavations around the Historic Stanford House in Sacramento, California

Papers and Research

-2000 Co-authored paper in preparation with Michael Kennedy, presented at American Fisheries Society conference in Ventura, California, "Archaeological Fish Remains from Bodega Bay California: Exploitation Strategies of Coastal Hunter-Gatherer's."

-2000 Senior thesis submitted to University of California, Davis department of Anthropology, "Methodological Approach for Determining White Sturgeon (*Acipenser transmontanus*) Size Archaeologically."

-2001 Paper in preparation with Dr. Robert L. Bettinger using data from allometric study with Sturgeon.

-2001 Paper in preparation with Dr. Peter Schulz, "Osteological Differentiation of Western North American Acipenseridae."

-2001 Lecture series given on Ichthyoarchaeology for the Museo de Historia Naturales in San Rafael, Mendoza Argentina

Awards, Honors and Grants

-1999 McNair Fellowship, a scientific grant.

-1999 Teaching Assistantship, at the University of California, Davis Archaeological Field School.

-2000-2001 Scientific collecting permit to be used in California for the collection of fresh and salt water fish specimens for osteological analysis of archaeological and paleontological fish remains.

**CENTRAL VALLEY ENERGY CENTER
DATA ADEQUACY RESPONSES (01-AFC-22)**

-2001 Research Associate in the Museo de Historia Naturales in San Rafael, Mendoza Argentina.

-2001-2002 Scientific collecting permit to be used in the Departamento de San Rafael for the collection of fresh water fish specimens for the osteological analysis of archaeological and paleontological fish remains.

References

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